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16. (Amended) A process as claimed in claim 8, where the intimate mixing is carried out in the presence of a sintering aid in a concentration of from 0.1 to 3%, based on the weight of the solids employed.

REMARKS

The Examiner is respectfully requested to enter the foregoing amendment to remove multiple dependent claims prior to examination of the above-identified patent application.

The amendments to the claims made in this amendment have not been made to overcome the prior art, and thus, should be considered to have been made for a purpose unrelated to patentability, and no estoppel should be deemed to attach thereto.

Should there be any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,
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APPENDIX
MARKED-UP COPY OF CHANGES TO CLAIMS

3. (Amended) A lithium intercalation compound containing lithium manganese oxide and having a spinel structure as claimed in [claims 1 and 2] claim 1, where the specific BET surface area is from 0.5 to 1.9 m²/g.

4. (Amended) A lithium intercalation compound containing lithium manganese oxide and having a spinel structure as claimed in [claims 1 and 2] claim 1, where the specific BET surface area is from 0.6 to 1.5 m²/g.

5. (Amended) A lithium intercalation compound containing lithium manganese oxide and having a spinel structure as claimed in [claims 1 to 4] claim 1, where the particle size, determined from the d₅₀ value, is greater than 1 μ m.

6. (Amended) A lithium intercalation compound having a spinel structure and containing lithium manganese oxide as claimed in [claims 1 to 5] claim 1, where the diameter, determined from the d₉₀ value, is less than 25 μ m.

7. (Amended) A lithium intercalation compound containing lithium manganese oxide and having a spinel structure as claimed in [claims 1 to 5] claim 1, where the diameter, determined from the d₉₀ value, is less than 20 μ m.

11. (Amended) A process for the preparation of a lithium intercalation compound containing lithium manganese oxide and having a spinel structure as claimed in [claims 8 to 10] claim 8, where the particulate, crystalline spinel precursor compound consists of the three phases MnO, LiMnO₂ and Mn₃O₄.

14. (Amended) A process as claimed in [one of claims 8 to 13] claim 8, where, after the heating in an oxidizing atmosphere, the resultant solid is suspended in water with addition of one or more alkaline lithium compounds, and the suspension is spray-dried at a temperature of from 100°C to 400°C.

16. (Amended) A process as claimed in [one of claims 8 to 15] claim 8, where the intimate mixing is carried out in the presence of a sintering aid in a concentration of from 0.1 to 3%, based on the weight of the solids employed.